



COMMONWEALTH of VIRGINIA
DEPARTMENT OF TRANSPORTATION

GREGORY A. WHIRLEY
ACTING COMMISSIONER

14685 Avion Parkway
Chantilly, VA 20151
(703) 383-VDOT (8368)

May 13, 2010

Mr. Marchant Schneider
County of Loudoun
Department of Planning
1 Harrison Street, S.E.
P.O. Box 7000
Leesburg, Virginia 20177-7000



Re: Loudoun County Public Schools
HS-7 Dulles South High School and Elementary School, Goshen Road Assemblage
(1st Submission)
Loudoun County Plan Number ZMAP 2010-0001 and SPEX 2010-0003

Dear Mr. Schneider:

We have reviewed the above noted plan and supplemental traffic analysis as requested in your March 19, 2010 transmittal and associated Chapter 527 transmittal. We offer the following comments:

1. Please see the attached memorandum dated May 05, 2010 from Mr. Arun Raj VDOT's Traffic Engineering Section.
2. Please see the attached e-mail dated Tuesday, April 13, 2010 from Mr. Cina Dabestani of VDOT's Transportation Planning Section.
3. Additional comments regarding the plan review portion of this application will be forthcoming.

The Traffic Impact Study (TIS) will require correction and re-submission.

If you have any questions, please call me at (703) 383-2061.

Sincerely,

John Bassett, P.E.
Transportation Engineer

Attachments

Cc: Imad Salous, P. E.

May 05, 2010

MEMORANDUM

TO: John Bassett

FROM: Arun Raj

CC: Jim Turner, Sylvia Spriggs

SUBJECT: RUID # 12119, Plan# ZMAP 10-0001/SPEX 2010-0003, Loudoun County School Board: HS-7/ES

We have completed our review of the traffic impact analysis for the above referenced location and offer the following comments/recommendations:

Summary of the Key Findings

The proposed development involves High School (HS 7) and Elementary School (ES) to be located in Loudoun County. The proposed schools will be located along Goshen Road, west of Gum Spring Road (Route 659), north of Braddock Road (Route 620) and south of Route 50 in Loudoun County, Virginia. The schools will be built on an assemblage of properties of approximately 97 acres. A special exception on the property is being proposed to allow for the construction of a High School and an Elementary School, comprising of approximately 1,800 students and 875 students, respectively. The proposed development will be phased, with the High School (HS) anticipated to open in 2012 and the Elementary School (ES) anticipated to open in 2015. As per the study, these developments are expected to generate 1108 AM peak and 759 PM peak hour trips.

Accuracy of the Traffic Impact Analysis

The methodologies and assumptions used in the traffic impact analysis are based upon the results of a scope of work meeting held by VDOT and others involved in the project. The following are the comments for the traffic impact analysis.

1. Please provide Level of Service (LOS) by lane group in both tables and figures.
2. Page 63, Figure 27; site generated traffic volume (in and out of the site) does not match with the trip generated (e.g. AM traffic out of the site is $128+30+37+0+17 = 212$, but trip generated is only 158) Even though the number used is more than

trips generated but please verify and justify. Also, provide an example how the Figures 28-31 (page 64-67) were generated. The example should involve data as well as referenced table/figure #s.

3. Background developments; Background developments used in the report (page 21, page 43 etc) does not match as provided in the scoping documents. Also, background development # 13 on page # 21 does not match on page 22 (Figure 7) and an additional background development # 14 is shown on page 22 (Figure 7).
4. Page 23, Figure 8, intersection # 1; Westbound through AM peak volume is shown as 451 and 384 used in synchro analysis. Also, page 35, Figure 14, intersection # 7; Eastbound AM peak through volume is shown as 19 and used 19 in synchro. Should it not be 9? Please verify and correct accordingly.
5. Page 36; line 2, remove "and weekday afternoon commuter peak hours" from the text.
6. Page 43; Figure referenced as Figure 6 should be Figure 7.
7. Page 95, Figure 45, intersection # 5; color codes do not match as per legend for planned/recommended improvements.
8. Appendix B; please explain why graphical presentation of volumes shows ES Intersection Peak Volumes and HS System Peak Volumes?

Comments on the Recommended Improvements

No comment at this time.

Additional VDOT Recommendations/Comments

9. As per report, GSA has collected actual field data for a significant number of schools for Loudoun County Public Schools regarding traffic for two schools that overlaps. Please provide the field date in the Appendix to support for using 25% AMPH and 30% PMPH in the report.

Conclusions

In general, we have found the study **Unacceptable** and needs to be revised and resubmitted. Please call if you have any questions.

From: Nelson, Kevin
Sent: Tuesday, April 13, 2010 3:05 PM
To: Bassett, John (NOVA), P.E.
Subject: FW: Loudoun County School Board: HS-7/ES - TIS Review & Comments

From: Dabestani, Cina
Sent: Tuesday, April 13, 2010 2:56 PM
To: Nelson, Kevin
Cc: Llana, Claudia, P.E.
Subject: Loudoun County School Board: HS-7/ES - TIS Review & Comments

Kevin:

In accordance with §15.2-2222.1 of Code of Virginia Traffic Impact Analysis Regulations, 24 VAC 30-155, a traffic impact study was prepared by Grove/Slade Associates, Inc. for the proposed development of two schools (HS-7 & ES) dated March 8, 2010 and submitted on behalf of Loudoun County School Board which Transportation Planning has reviewed and offers following comments/concerns.

- 1- This development is proposed to access North Star Boulevard by the horizon year of 2015 (with first phase to be completed by 2012). Loudoun County-wide Transportation Plan (CTP) has identified North Star Boulevard as the future alignment of VA 659 Relocated by 2030. A recent review of Loudoun County's travel demand model revealed more than 60% of 2030 traffic on VA 659 Relocated would be "through" traffic (commuters with both origin and destination beyond the immediate area of this development). Therefore, safety at the accesses to the development may be compromised thus planning for measures such as traffic lights during peak hour (when schools are in session) is highly recommended for years beyond the horizon year of this study.
- 2- This study has assumed 8% heavy truck on US 50 where VDOT's license plate survey (conducted in June 2008) showed 13% heavy truck for the same location on US 50. Please make the adjustment and re-evaluate the impact.

Thank you for the opportunity to review and offer comments. Above comments require re-submission and should you have any questions, please feel free to contact me directly.

Cina S. Dabestani
Sr. Transportation Engineer
Transportation Planning
Virginia Department of Transportation
703 . 383 . 2215
Cina.Dabestani@VDOT.Virginia.GOV



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DEPARTMENT OF TRANSPORTATION

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GREGORY A. WHIRLEY
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May 14, 2010

Mr. Marchant Schneider
County of Loudoun
Department of Planning
1 Harrison Street, S.E.
P.O. Box 7000
Leesburg, Virginia 20177-7000

Re: Loudoun County Public Schools
HS-7 Dulles South High School and Elementary School, Goshen Road Assemblage
(1st Submission – **Comment Addendum**)
Loudoun County Application Numbers ZMAP 2010-0001 and SPEX 2010-0003

Dear Mr. Schneider:

We have reviewed the above noted application as requested in your March 19, 2010 transmittal. These comments are in addition to our May 13, 2010 comment letter regarding the Traffic Impact Study (TIS) as alluded to in comment # 3 of that letter. We offer the following comments:

1. Please provide draft proffers for review.
2. Please label all the applicable roads on the plan as they are designated in the Loudoun *Countywide Transportation Plan (CTP)* or as they are referenced in the TIS, e.g. "Route 659 Relocated" is also referred to as "Northstar Boulevard".
3. Provide typical sections for Roads "A" and "B" compliant with the applicable VDOT standard. Reference the standard used and include street width, design speed and projected traffic volume.
4. Goshen Road, Route 616 is not to be abandoned until an adequate replacement facility is in place.
5. Related to comment # 4: Please see the attached e-mail dated Monday, March 29, 2010 from James C. Zeller, P. E. of VDOT's Leesburg Residency office.

6. The cul-de-sac bulb at the northern end of the project is to have sufficient throat length per VDOT standards.
7. This application appears to rely significantly upon proffered roadway improvements "By Others". To ensure an adequate roadway network, we recommend that the portion of the Statement of Justification (dated March 18, 2010) entitled "Summary of Related Road Improvement Proffers" and the "Conclusions" portion of the TIS dated March 8, 2010 be analyzed, merged and presented in an orderly fashion and incorporated into the proffers/approval conditions for this application. (This is related to comment # 1 above). There should be a mechanism to ensure that any pertinent roadway proffers "By Others" are in place prior to the proposed school opening date. Receipt of this information may generate additional comments.

If you have any questions, please call me at (703) 383-2061.

Sincerely,

A handwritten signature in black ink, appearing to read 'JB' followed by a stylized flourish.

John Bassett, P.E.
Transportation Engineer

Attachment

cc: Imad Salous, P. E.

From: Zeller, James C., P.E.

Sent: Monday, March 29, 2010 10:28 AM

To: George Phillips

Cc: Hakim, Gaby Y.; Salous, Imad A., P.E.; Bigdeli, Farid, P.E.; Nies, Nick M.

Subject: Proposed Abandonment of a Portion of Route 616 Goshen Road

George,

Loudoun County Public Schools has requested the abandonment of a portion of Route 616 Goshen Road beginning at its intersection with Route 620 Braddock Road and extending north approximately 0.85 mi. The purpose of the abandonment is to facilitate the construction of an elementary school and a high school. VDOT staff at the Leesburg Residency has reviewed the request and offers the following comments:

1. The abandonment relies on the construction of a portion of Relocated Route 659. Please note that before the Goshen Road right of way can be abandoned, the necessary portion of Relocated Route 659 must be accepted into the state system for maintenance.
2. The portion of Relocated Route 659 affected by this request is part of the adopted Location of the Tri-County Parkway (VDOT Project R000-96A-102 P101, UPC 52405). Design and construction by third parties of Relocated Route 659 will need to be coordinated with the major design elements of the Tri-County Parkway Location Study. The parties responsible for Relocated Route 659 should contact the Tri-County Parkway project manager to exchange design parameters. Here is the contact information of VDOT's project manager:

Mr. Nick M. Nies, Environmental Specialist II
Virginia Department of Transportation
1201 East Broad Street
Richmond, Virginia 23219
804-786-1092
nicholas.nies@vdot.virginia.gov

Please do not hesitate to call or email me if you have any questions.

James C. Zeller PE
Virginia Department of Transportation
41 Lawson Road, SE
Leesburg, Virginia 20175-4460

703-737-2014 o
703-771-2528 f
571-722-6381 c